

L Number	Hits	Search Text	DB	Time stamp
1	336	(core or particle or bead or granul\$4 or agglomerat\$4 or powder\$3 or particulate) same (detergent or deterative or tenside) same (irregular\$5 or crevice or aperture or hole or depression or hollow or honeycomb\$3 or pit\$3) same (fill\$3 or coat\$3 or encapsulat\$4 or microencapsulat\$4 or spray\$3 or admix\$4 or blend\$3 or postdos\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/08/16 09:06
2	3	(core or particle or bead or granul\$4 or agglomerat\$4 or powder\$3 or particulate) same (detergent or deterative or tenside) same (irregular\$5 or crevice or aperture or hole or depression or hollow or honeycomb\$3 or pit\$3) same (fill\$3 or coat\$3 or encapsulat\$4 or microencapsulat\$4 or spray\$3 or admix\$4 or blend\$3 or postdos\$3) and reduc\$4 near6 surface adj1 area	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/08/16 09:13
3	121	(core or particle or bead or granul\$4 or agglomerat\$4 or powder\$3 or particulate) same (detergent or deterative or tenside) same (irregular\$5 or crevice or aperture or hole or depression or hollow or honeycomb\$3 or pit\$3) same (fill\$3 or coat\$3 or encapsulat\$4 or microencapsulat\$4 or spray\$3 or admix\$4 or blend\$3 or postdos\$3) same (soluble or inorganic or carbonate or sulfate or sulphate or double adj1 salt or bicarbonate or citrate or chloride or silicate or phosphate or stpp or tripolyphosphate or cellulose\$3 or sugar or monosaccharide)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/08/16 10:28
4	35	(core or particle or bead or granul\$4 or agglomerat\$4 or powder\$3 or particulate) same (detergent or deterative or tenside) same (irregular\$5 or crevice or aperture or hole or depression or hollow or honeycomb\$3 or pit\$3) same (fill\$3 or coat\$3 or encapsulat\$4 or microencapsulat\$4 or admix\$4 or blend\$3 or postdos\$3) same (soluble or inorganic or carbonate or sulfate or sulphate or double adj1 salt or bicarbonate or citrate or chloride or silicate or phosphate or stpp or tripolyphosphate or cellulose\$3 or sugar or monosaccharide)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/08/16 10:33
5	410	510/\$.ccls. and (core or particle or bead or granul\$4 or agglomerat\$4 or powder\$3 or particulate) same spray adj1 dried same (fill\$3 or coat\$3 or encapsulat\$4 or microencapsulat\$4 or admix\$4 or blend\$3 or postdos\$3) same (soluble or inorganic or carbonate or sulfate or sulphate or double adj1 salt or bicarbonate or citrate or chloride or silicate or phosphate or stpp or tripolyphosphate or cellulose\$3 or sugar or monosaccharide)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/08/16 10:35
6	211	510/\$.ccls. and (core or particle or bead or granul\$4 or agglomerat\$4 or powder\$3 or particulate) same spray adj1 dried same (fill\$3 or coat\$3 or encapsulat\$4 or microencapsulat\$4 or admix\$4 or blend\$3 or postdos\$3) near6 (soluble or inorganic or carbonate or sulfate or sulphate or double adj1 salt or bicarbonate or citrate or chloride or silicate or phosphate or stpp or tripolyphosphate or cellulose\$3 or sugar or monosaccharide)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/08/16 10:36
7	78	510/\$.ccls. and (core or particle or bead or granul\$4 or agglomerat\$4 or powder\$3 or particulate) same spray adj1 dried same (carbonate or bicarbonate or sesquicarbonate or ash\$3) same (fill\$3 or coat\$3 or encapsulat\$4 or microencapsulat\$4 or admix\$4 or blend\$3 or postdos\$3) near6 (soluble or inorganic or carbonate or sulfate or sulphate or double adj1 salt or bicarbonate or citrate or chloride or silicate or phosphate or stpp or tripolyphosphate or cellulose\$3 or sugar or monosaccharide)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/08/16 10:37

	U	1	Document ID	Issue Date	Pages	Title	Current OR
1	<input type="checkbox"/>	<input type="checkbox"/>	US 6767882 B1	20040727	12	Process for producing coated detergent particles	510/441
2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6683042 B1	20040127		Granulation method	510/444
3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5527489 A	19960618		Process for preparing high density detergent compositions containing particulate pH sensitive surfactant	510/294

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5
1	510/438; 510/442; 510/444		Jagannath, Girish et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	510/351; 510/353; 510/356; 510/357; 510/495; 510/535		Larson, Bernd et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	510/352; 510/444; 510/498		Tadsen, Richard L. et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	Image Doc. Displayed	PT
1	US 6767882	<input type="checkbox"/>
2		<input type="checkbox"/>
3		<input type="checkbox"/>

DERWENT-ACC-NO: 1984-021224

DERWENT-WEEK: 198404

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TITLE: Detergent powder mfr. for cloths - using sodium carbonate of specified particle size and apparent density to improve caking and component sepn. resistance

PATENT-ASSIGNEE: KAO CORP[KAOS]

PRIORITY-DATA: 1982JP-0097094 (June 7, 1982)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 58213099 A	December 10, 1983	N/A	009	N/A
JP 94004872 B2	January 19, 1994	N/A	009	C11D 003/10

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
JP 58213099A	N/A	1982JP-0097094	June 7, 1982
JP 94004872B2	N/A	1982JP-0097094	June 7, 1982
JP 94004872B2	Based on	JP 58213099	N/A

INT-CL (IPC): C11D003/10, C11D011/02

ABSTRACTED-PUB-NO: JP 58213099A

BASIC-ABSTRACT:

Process comprises mixing 40-5 pts. wt. sodium carbonate having apparent density 0.25-0.7 g/ml, 250-600 microns average particle size, and a particle size distribution consisting of up to 20 wt.% of up to 125 microns fraction, with 60-95 pts. wt. base component of spray dried powder detergent.

Prod. has superior resistant to caking during storage. If heavy or light soda ash is used as in prior industrial detergents, the resistance to caking is similarly improved but sepn. of soda ash from the base compsn. is caused. Use

of the specified sodium carbonate inhibits such sepn. thus ensuring a constant compsn. and stable detergent characteristics.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: DETERGENT POWDER MANUFACTURE CLOTH SODIUM
CARBONATE SPECIFIED
PARTICLE SIZE APPARENT DENSITY IMPROVE CAKE COMPONENT
SEPARATE
RESISTANCE

DERWENT-CLASS: D25 E34

CPI-CODES: D11-A; D11-B04; D11-B11; D11-D03; E33-D;

CHEMICAL-CODES:

Chemical Indexing M3 *01*

Fragmentation Code

A111 A940 C106 C108 C530 C730 C801 C802 C803 C805
C807 M411 M781 M903 M910 Q273 R036

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1287U

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1984-009079